

SERVICE
MANUAL

PM 750DC

marantz.

model PM750DC

Stereo Console Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA 91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
193 London Road
Staines, Middlesex
United Kingdom

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Franzengatan 6
10425 Stockholm
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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1. LED POWER METER LEVEL ADJUSTMENT

Adjustment points: L ch R ch
RX07 RX08

1. Connect an 8Ω load to the speaker terminals and apply a 1 kHz signal to the AUX jacks.
2. Set the volume control to the maximum and adjust the input so that the output is 23.66 V.
3. Turn RX07 and RX08 until just before QX18 and QX19 light.
4. Decrease the input and increase it again to confirm that QX18 and QX19 light up when the output is 24.5 V.

Note: Care should be taken as hysteresis occurs when the LED lights up.

2. IDLING CURRENT ADJUSTMENT

Adjustments points: L ch R ch
R737 R738
TP1 TP2

Adjust so that the digital voltmeter reads 8 mV at TP1 and TP2 one minute after the power is on.

Table 1. Test Equipment Required for Servicing

Item	Manufacturer and Model No.	Use
Distortion Analyzer Audio Oscillator AC Voltmeter	Sound Technology Model 1700B	Distortion Measurements Sinewave and squarewave signal source voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester		Trouble shooting
DC Voltmeter	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1 ~ 10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstet Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600 ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, $\pm 0.5\%$ 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, $\pm 0.5\%$ 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1	Monitors and controls primary power for amplifier
Amplifier Output Load Box	Optional Item. Fabricate in accordance with Figure 2	Provides various amplifier loads and can monitor shorted output

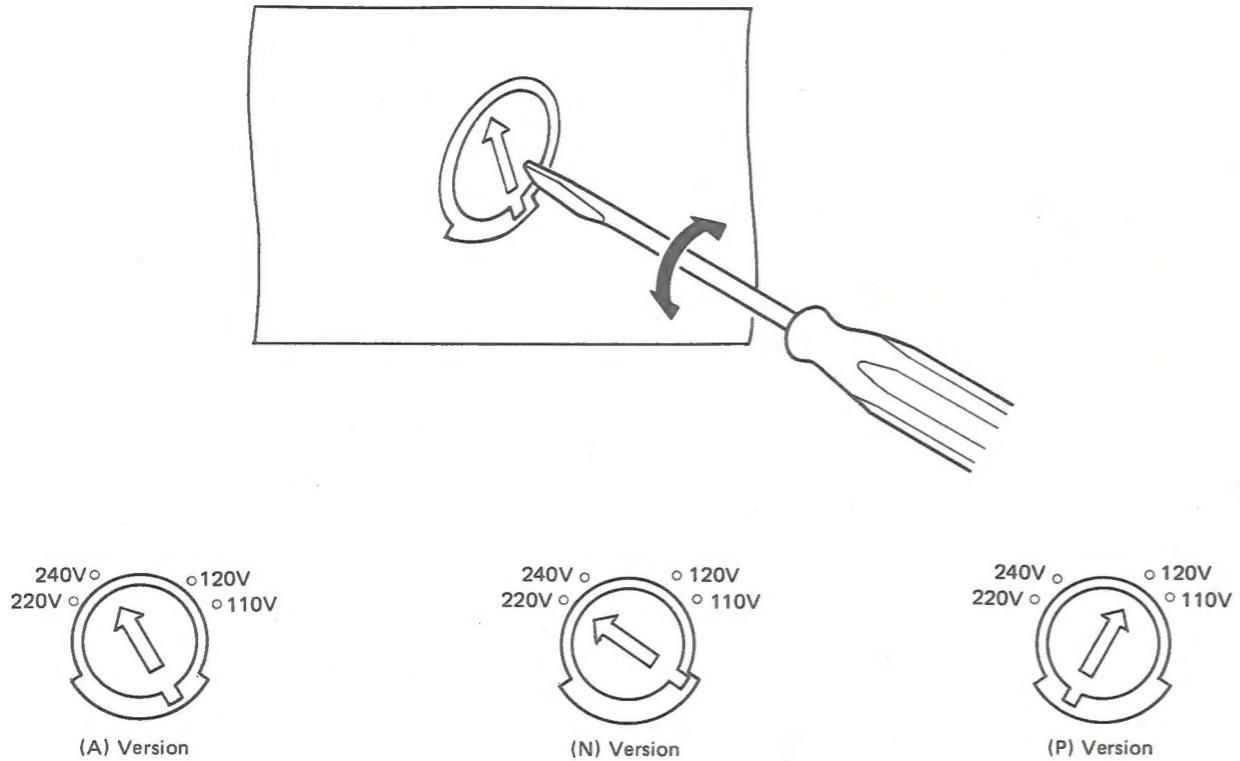
3. VOLTAGE CONVERSION

• EUROPEAN MODEL ONLY

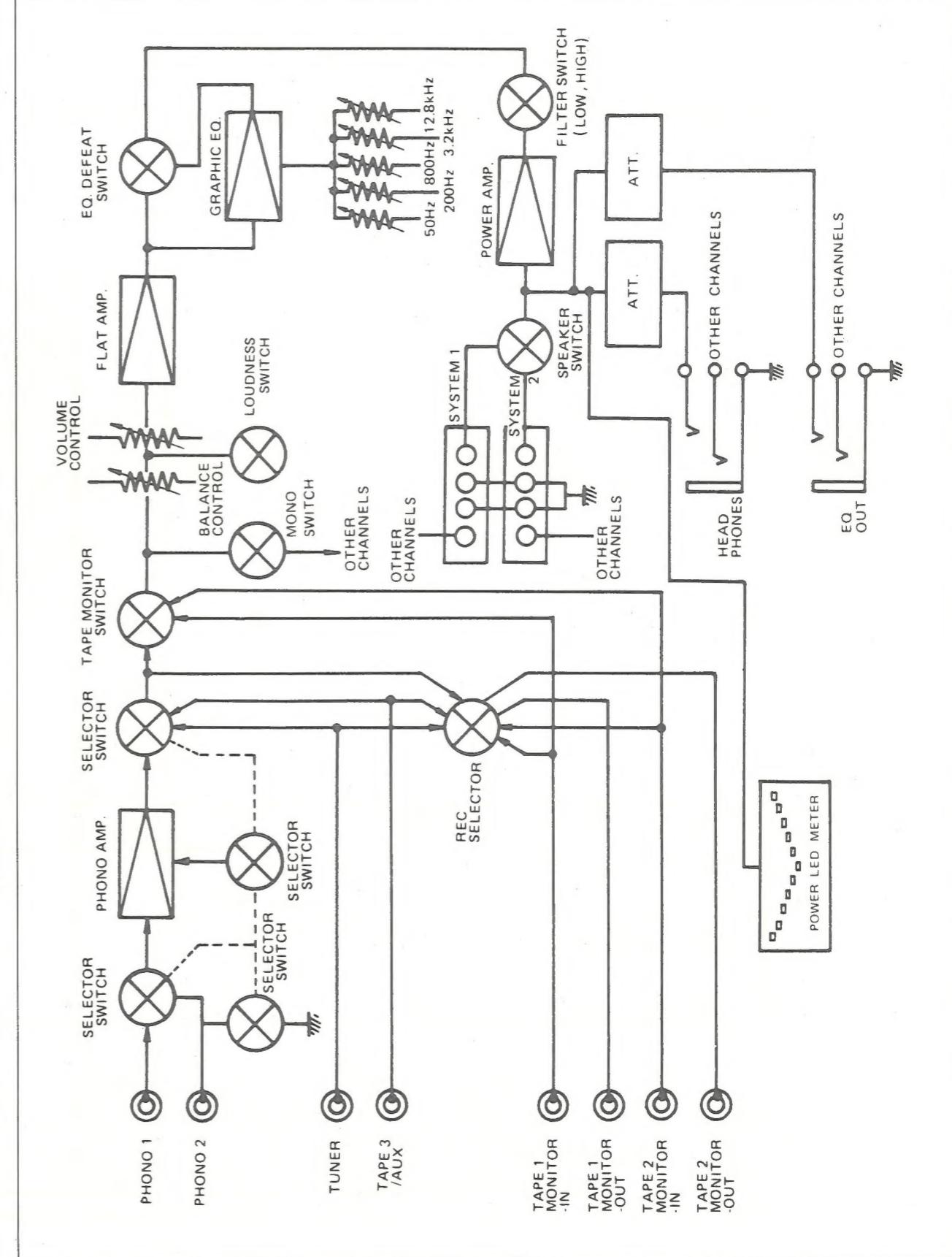
To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart

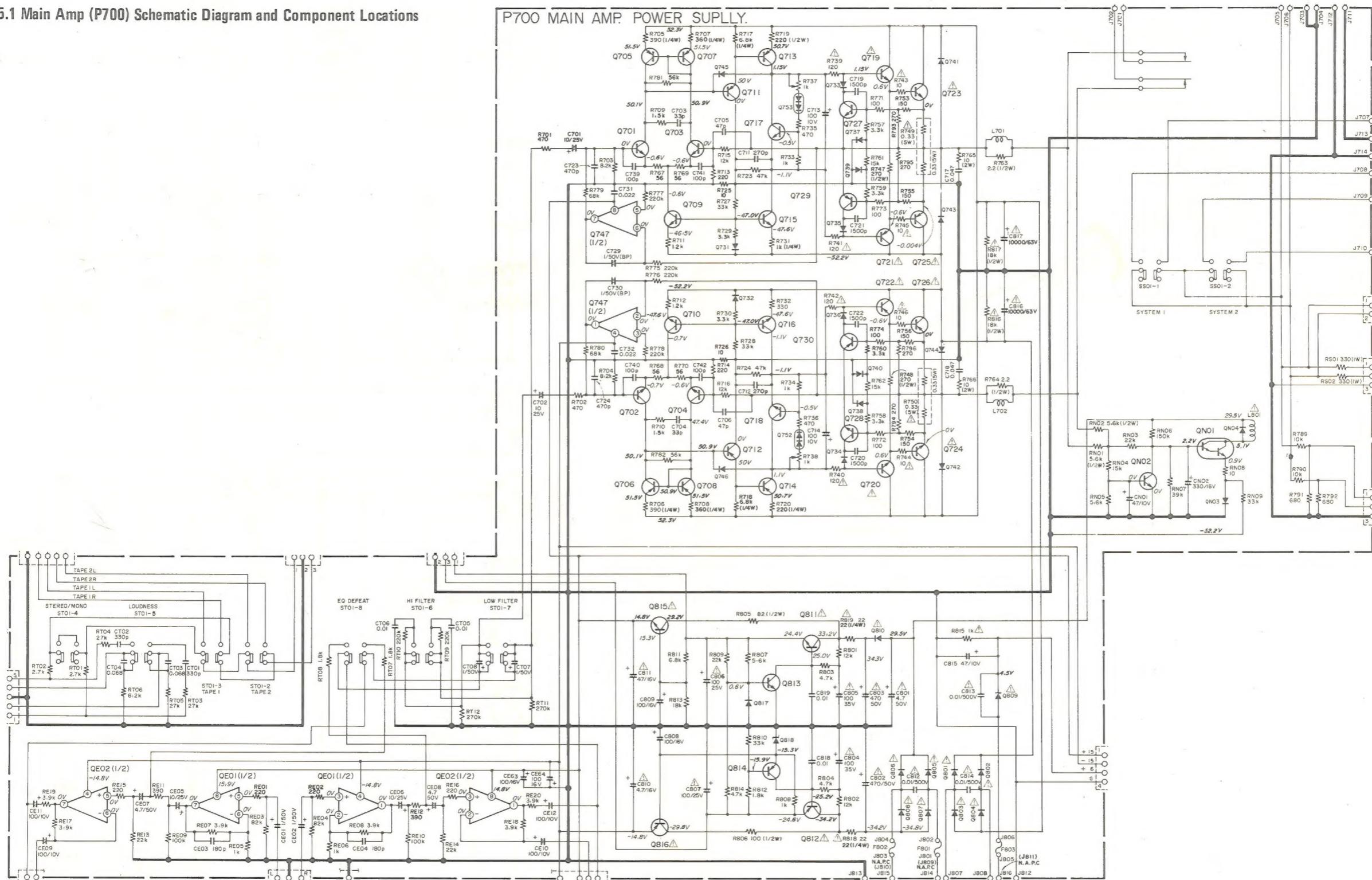


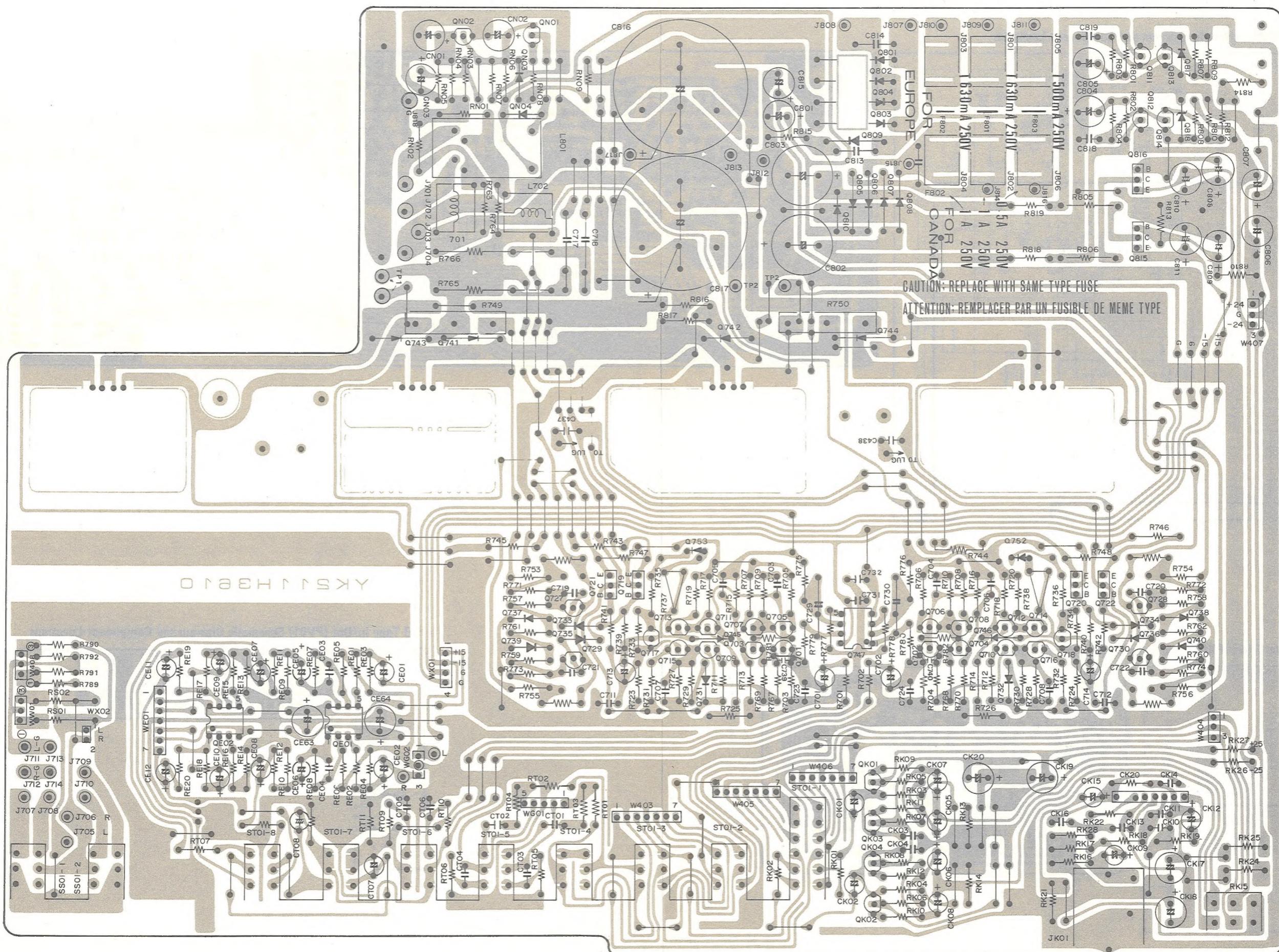
4. BLOCK DIAGRAM



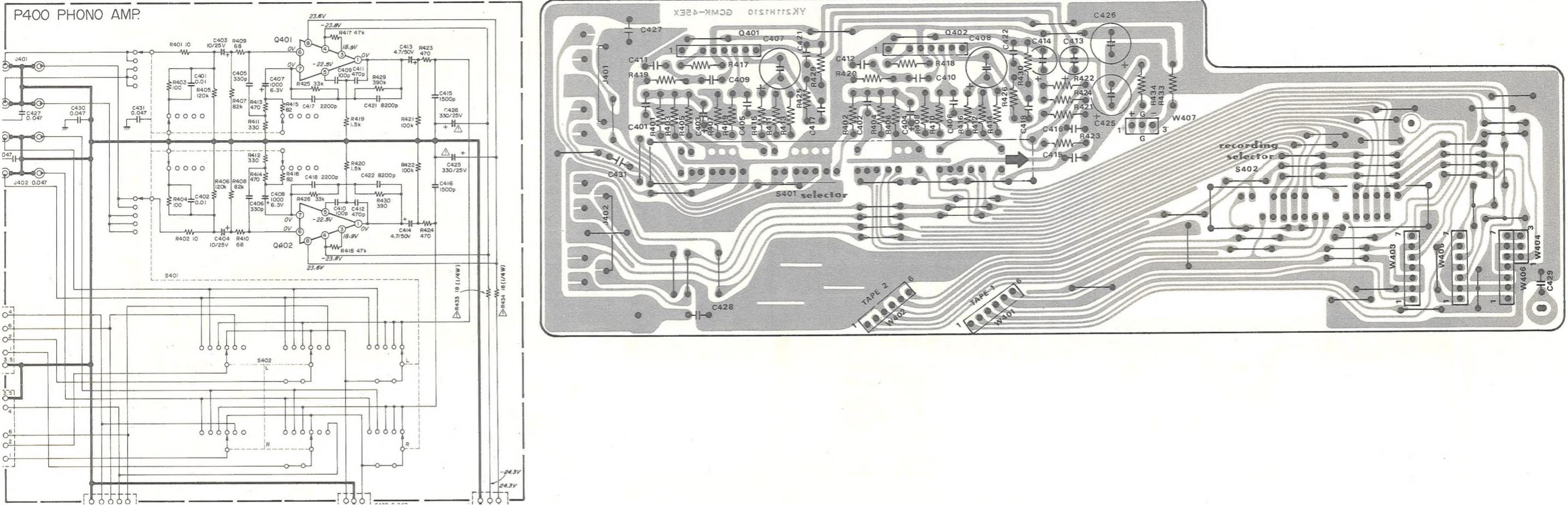
5. DIAGRAM AND COMPOENT LOCATIONS

5.1 Main Amp (P700) Schematic Diagram and Component Locations

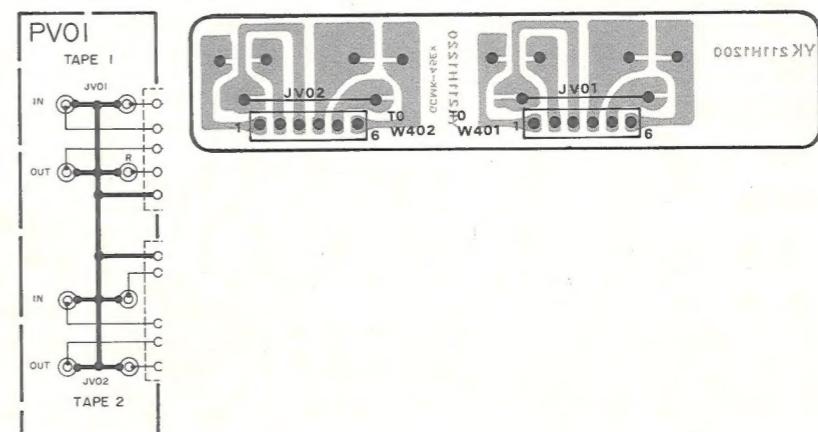




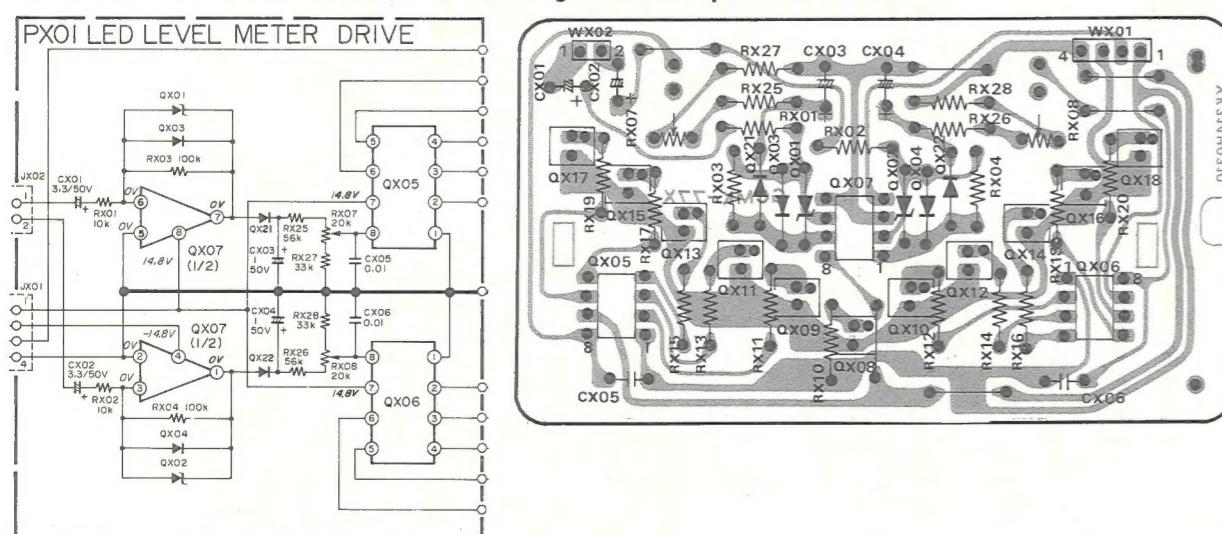
5.2 Phono Amp (P400) Schematic Diagram and Component Locations



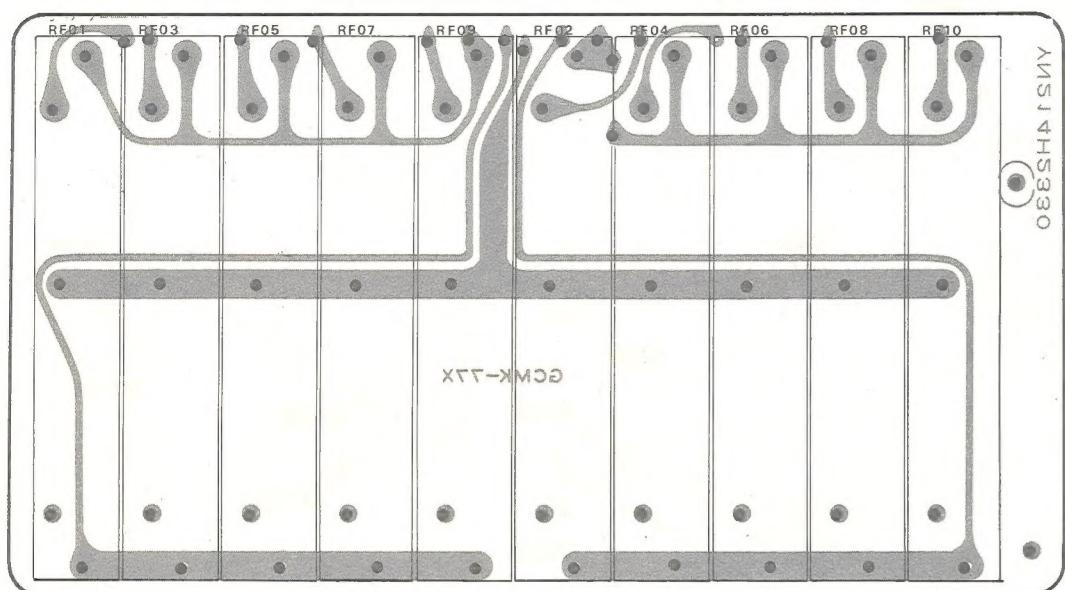
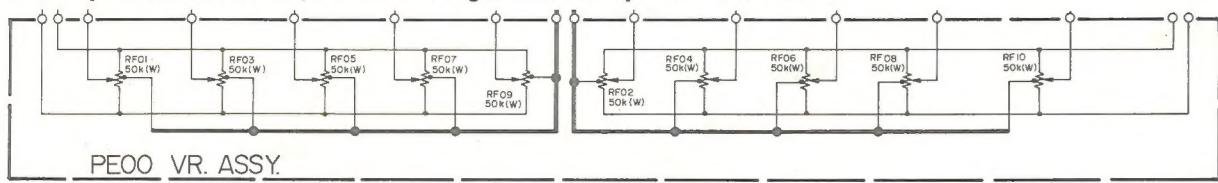
5.3 Tape In/Out (PV01) Schematic Diagram and Component Locations



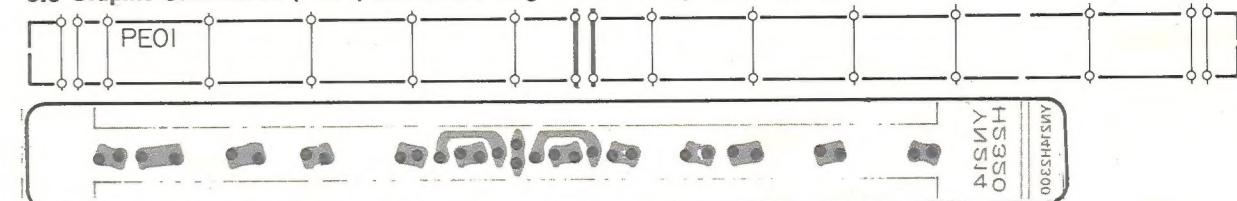
5.4 LED Level Meter Drive (PX01) Schematic Diagram and Component Locations



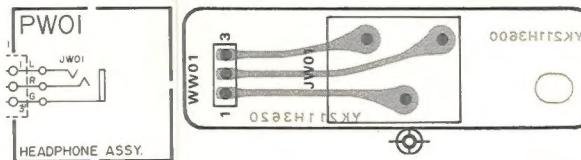
5.5 Graphic Volume (PE00) Schematic Diagram and Component Locations



5.6 Graphic Connection (PE01) Schematic Diagram and Component Locations

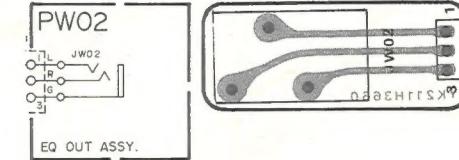


5.8 Head Phone (PW01) Schematic Diagram and Component Locations

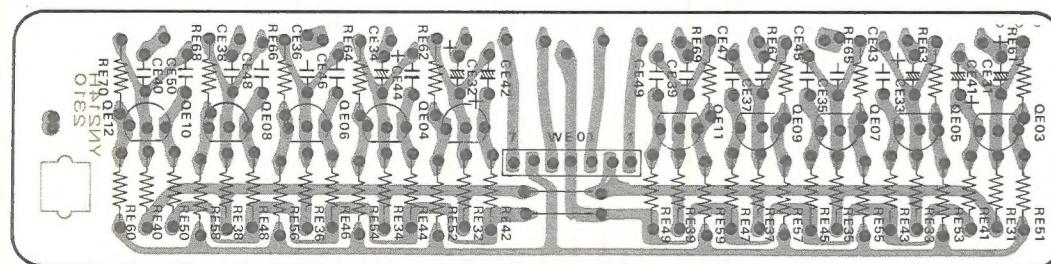
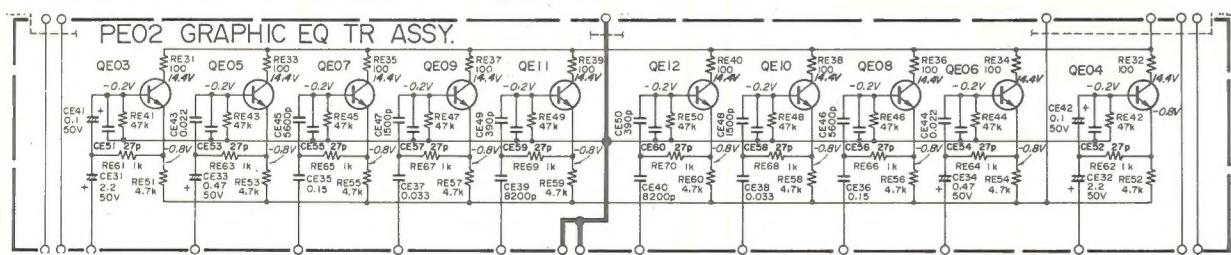


5.9 EQ Out (PW02)

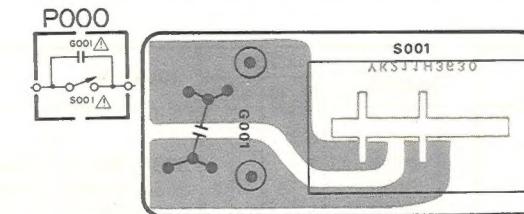
Schematic Diagram and Component Locations



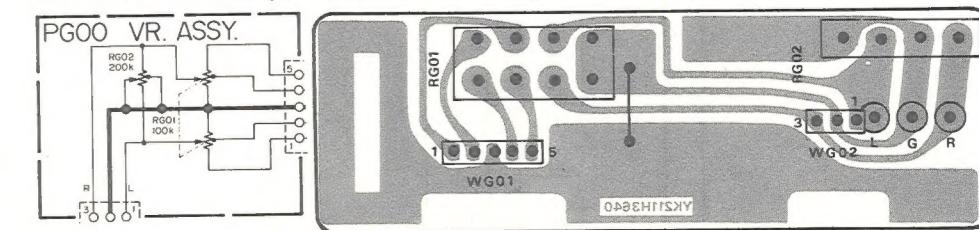
5.7 Graphic Transistor (PE02) Schematic Diagram and Component Locations



5.10 Power Switch (P000) Schematic Diagram and Component Locations

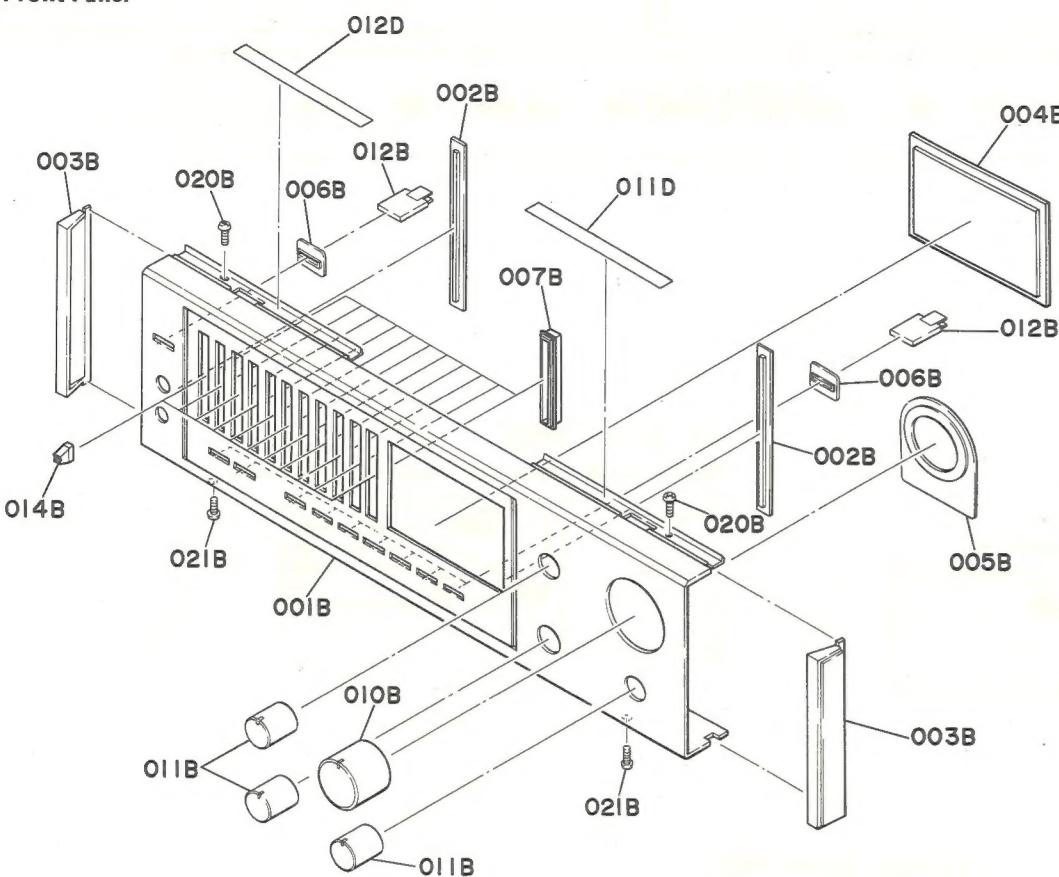


5.11 Volume Assembly (PG00) Schematic Diagram and Component Locations



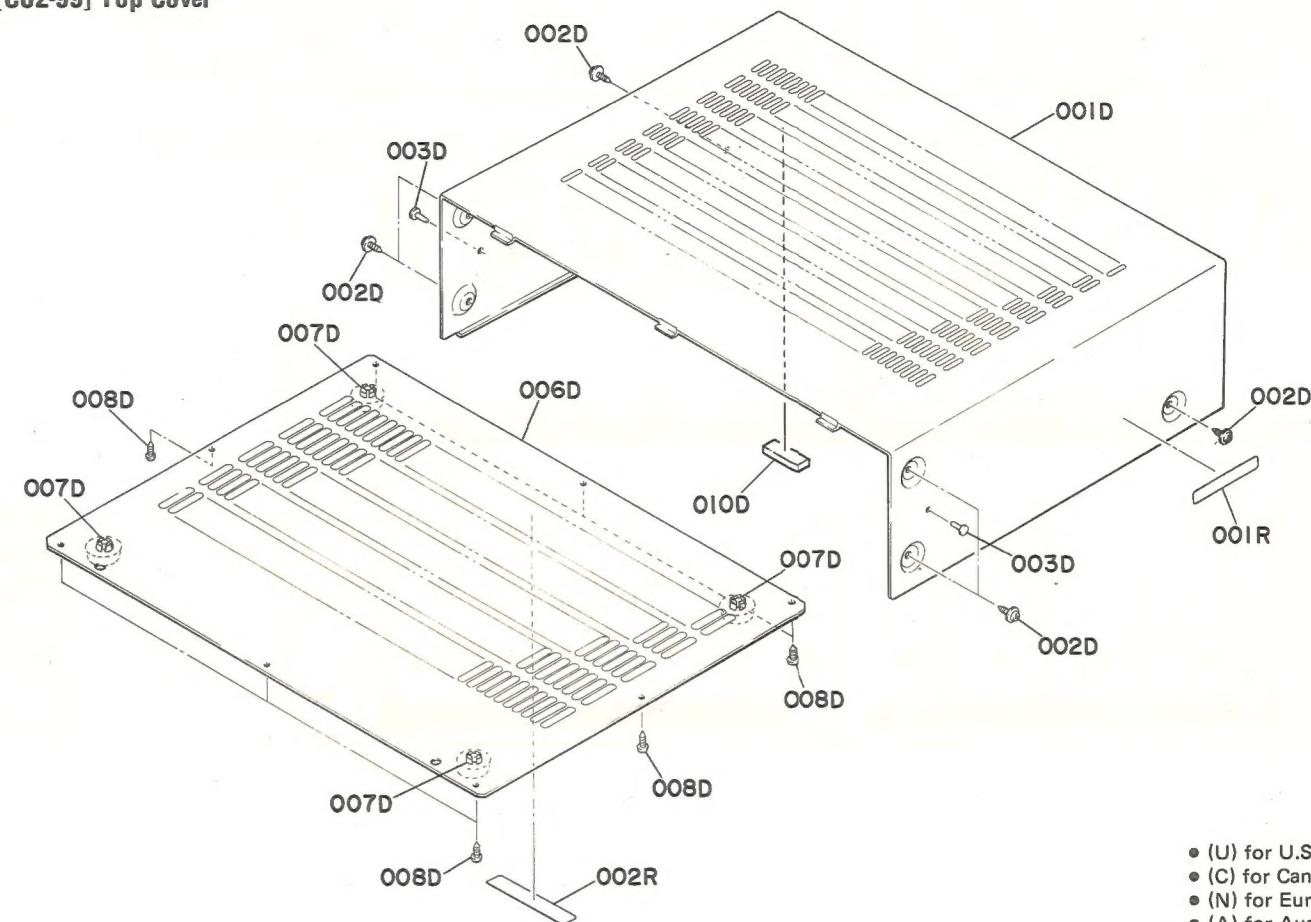
6. EXPLODED VIEWS AND PARTS LIST

[C01-99] Front Panel



- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

[C02-99] Top Cover



- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
A	1	1	1	1	1	214H063400	Front Panel Assembly
001B	1	1	1	1	1	214H063010	Escutcheon, Front Panel
002B	2	2	2	2	2	211H063020	Escutcheon
003B	2	2	2	2	2	211H067010	Cap, Panel Side
004B	1	1	1	1	1	214H158010	Window, Power LED
005B	1	1	1	1	1	208H063020	Escutcheon, Volume
006B	10	10	10	10	10	208H259010	Bushing, Push Switch
007B	10	10	10	10	10	2129259020	Bushing, Slide Volume

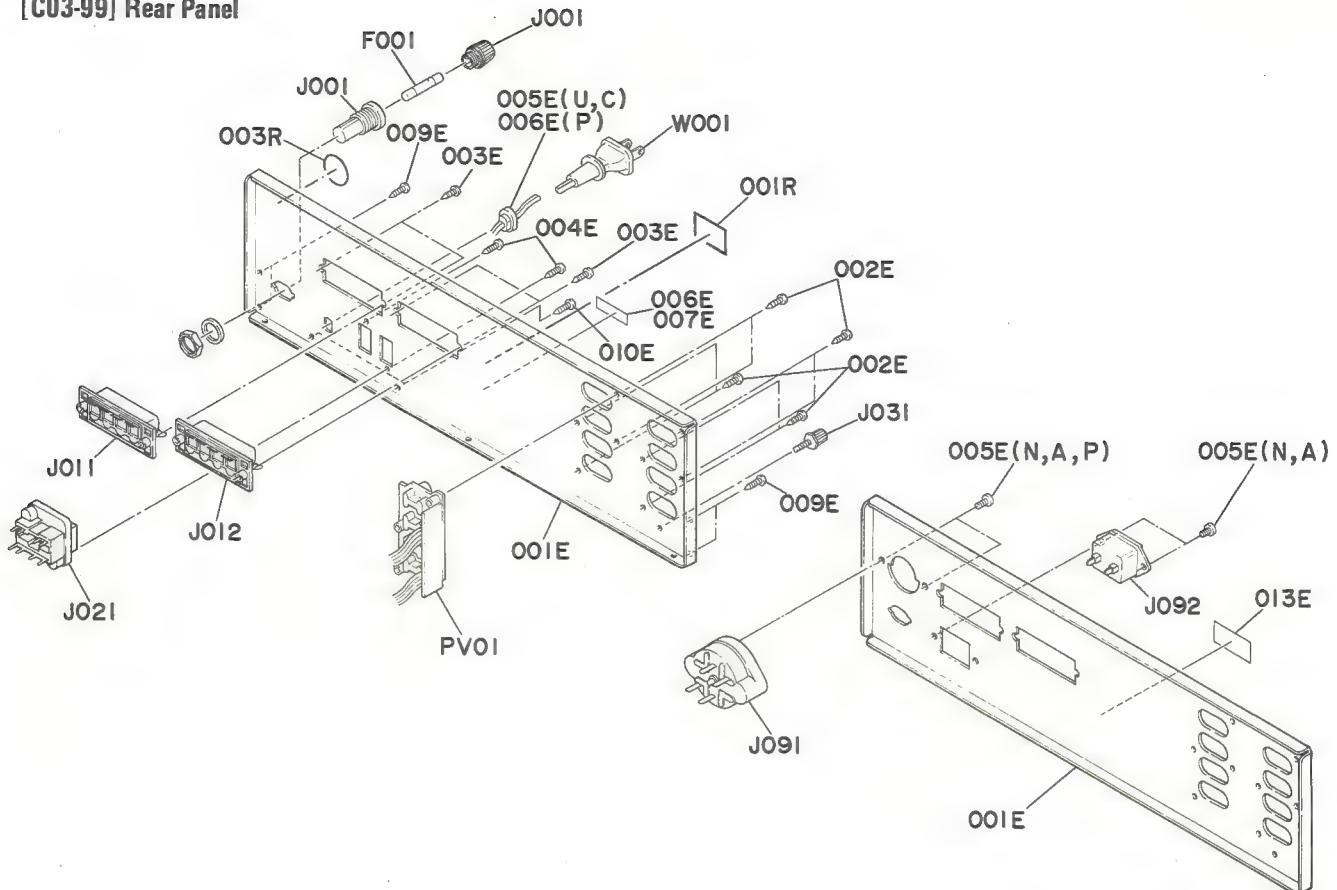
• (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
010B	1	1				208H154110	Knob, Volume
010B			1	1	1	208H154010	Knob, Volume
011B	3	3				208H154120	Knob, Rotary Switch
011B	3	3	3	3	3	208H154020	Knob, Rotary Switch
012B	10	10	10	10	10	208H154060	Knob, Push
014B	10	10	10	10	10	208H154050	Knob, Slide Volume
020B	2	2	2	2	2	5128030880	B.H. Tapped Screw B3 x 8
021B	2	2	2	2	2	5128030880	B.H. Tapped Screw B3 x 8
011D	1	1	1	1	1	2965118010	Spacer
012D	1	1	1	1	1	211H118010	Spacer

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001D	1	1	1	1	1	211H257010	Lid, Top Cover
002D	6	6				51260408Z0	B.T. Screw B4 x 8
002D		6	6	6		51260408U0	B.T. Screw B4 x 8
003D	2	2	2	2	2	2991259010	Bushing
006D	1	1	1	1		211H257020	Lid, Bottom Cover
007D	4	4	4	4	4	403H057010	Leg
008D	8	8	8	8	8	51280308B0	B.H. Tapped Screw B3 x 8
010D		1	1	1		211H056020	Buffer

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001R	1		1	1	1	2932861110	Label
002R	1		1	1	1	2578861010	Label

[C03-99] Rear Panel

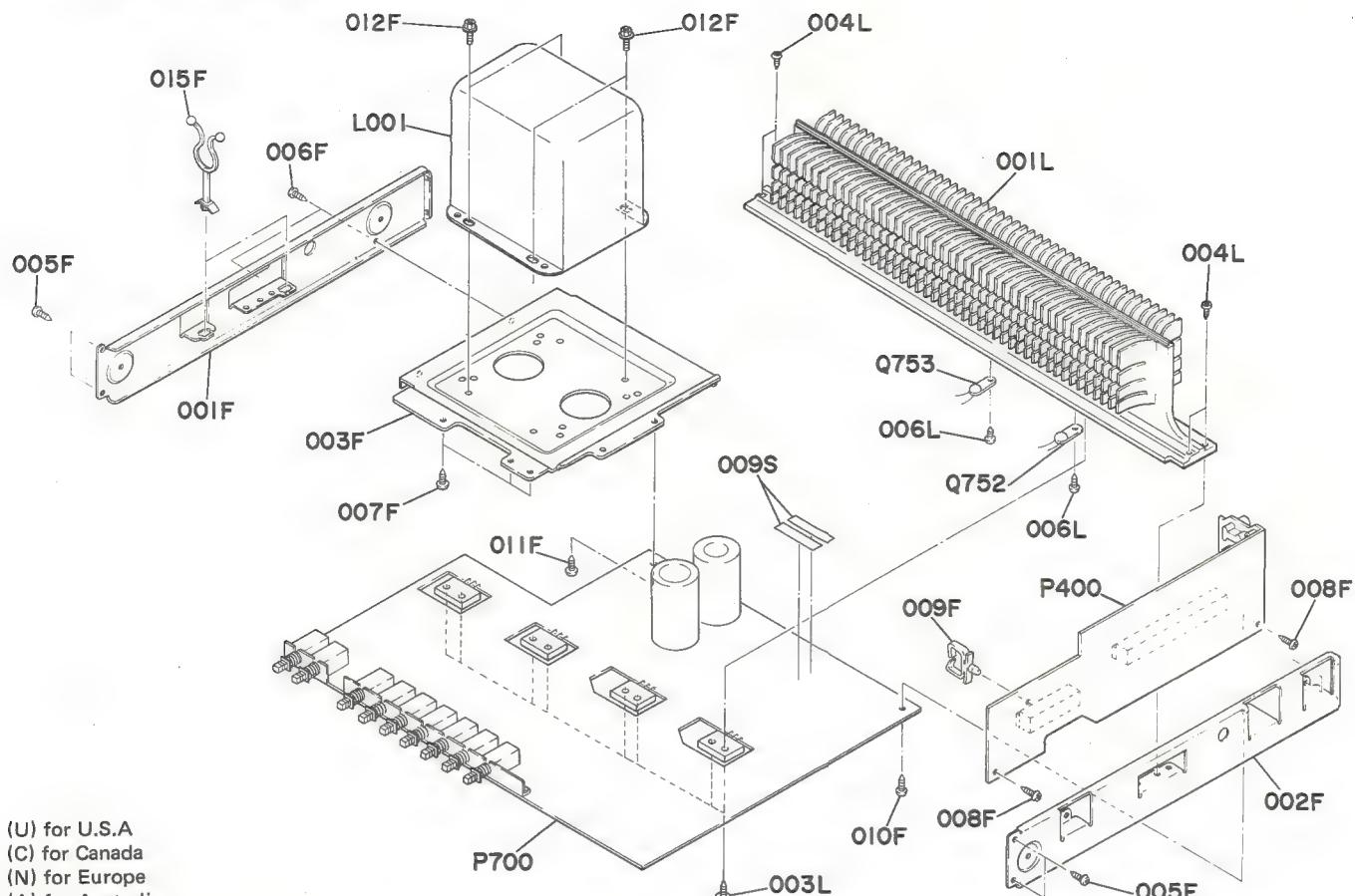


• (U) for U.S.A • (A) for Australia
 • (C) for Canada • (P) for PX
 • (N) for Europe

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001E	1	1				214H160210	Bracket, Rear Panel
001E			1			214H160220	Bracket, Rear Panel
001E				1		214H160230	Bracket, Rear Panel
001E					1	214H160240	Bracket, Rear Panel
002E	8	8	8	8	8	51280308U0	B.H. Tapped Screw B3 x 8
003E	4	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	2	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
005E	1	1				1455259030	Bushing, AC Cord
005E			2	2		51420308T0	O.C.H. Tapped Screw O3 x 8
005E			2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
006E	1	1	1	1		2112265010	Indicator
006E				1		1455259030	Bushing, AC Cord
007E				1		2112265010	Indicator
009E	4	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
010E	2	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
013E				1		4581861010	Label
001R		1				2457861040	Label, CSA
003R	1					9511101070	Label, UL

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
△F001	1	1				FS10500500	Fuse 5A 250V
△F001			1	1		FS10250800	Fuse 2.5A 250V
△F001					1	FS10500600	Fuse 5A 250V
△J001	1					YJ08000310	Jack, Fuse Holder
△J001		1		1	1	YJ08000290	Jack, Fuse Holder
△J001		1			1	YJ08000300	Jack, Fuse Holder
J011	1	1	1	1	1	YT03040200	Terminal, System 1
J012	1	1	1	1	1	YT03040200	Terminal, System 2
△J021	1	1				YJ04000740	Jack, AC Outlet
△J021					1	YJ04000750	Jack, AC Outlet
J031	1	1	1	1	1	YL03010250	Terminal, GND
△J091			1	1	1	BY05080040	Voltage Selector
△J092			1	1		YP04000590	Plug, AC Inlet
△W001	1	1				YC01900070	A.C. Power Cord
△W001					1	YC01800190	A.C. Power Cord

[P01-99] Main P.W. Board and General Parts

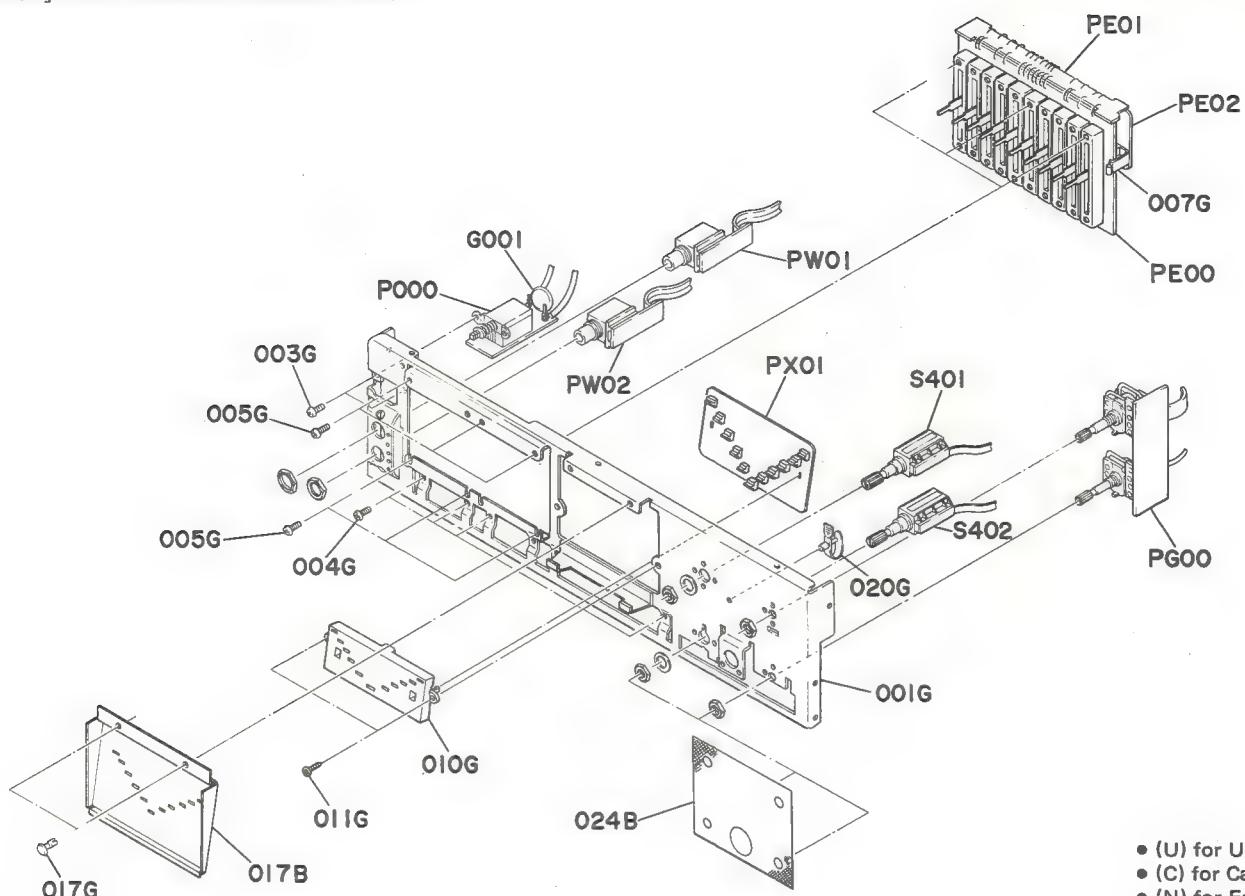


- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001F	1	1	1	1	1	211H126010	Stay, (L)
002F	1	1	1	1	1	211H126020	Stay, (R)
003F	1	1	1	1	1	214H105010	Chassis, Transformer
005F	4	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
006F	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
007F	3	3	3	3	3	51280408B0	B.H. Tapped Screw B4 x 8
008F	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009F	1	1	1	1	1	2886005050	Clamper
010F	1	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
011F	1	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
012F	4	4	4	4	4	52040410A0	H. Head Bolt, S.F H4 x 10
015F	2	2	2	2	2	2139005010	Clamper

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001L	1	1	1	1	1	214H267010	Heatsink
003L	4	4	4	4	4	51260312B0	B.T. Screw B3 x 12
004L	4	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
006L	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009S	2					2112265010	Label
△L001	1					TS18505070	Power Transformer
△L001		1				TS18505080	Power Transformer
△L001			1	1	1	TS19619010	Power Transformer
Q752	1	1	1	1	1	HV00010120	Varistor, MV-11Y
Q753	1	1	1	1	1	HV00010120	Varistor, MV-11Y

[P02-99] Front Chassis and General Parts

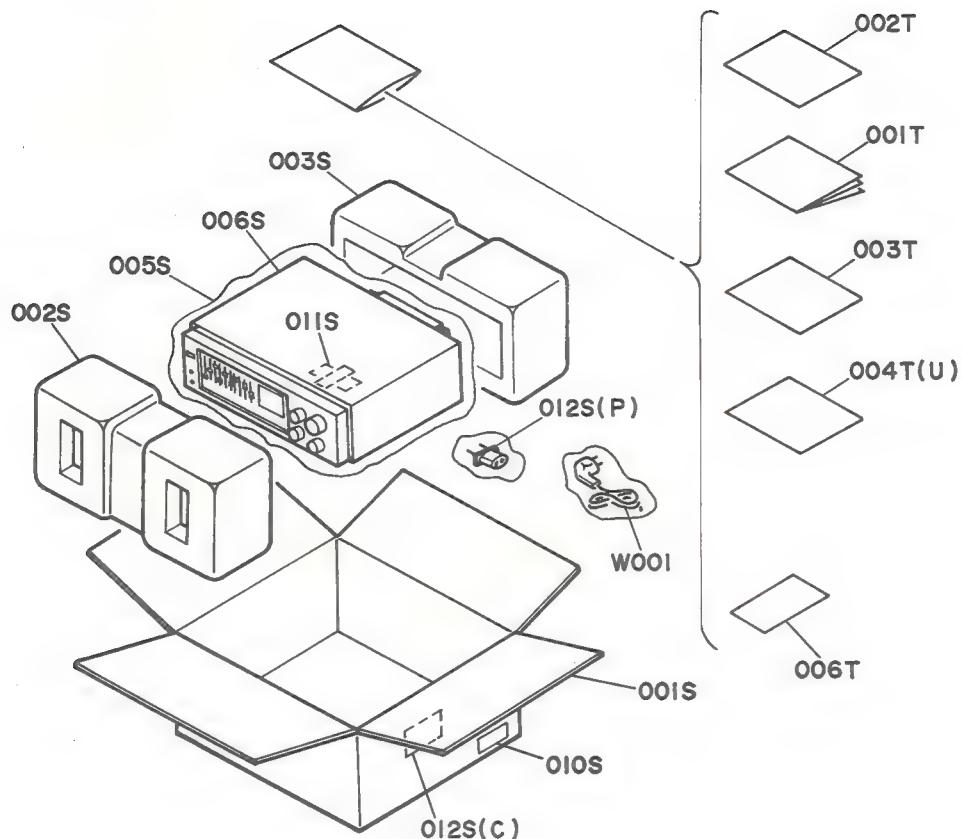


- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
017B	1	1	1	1	1	214H302010	Dial, Power Level
024B	1	1	1	1	1	211H303010	Mask
001G	1	1	1	1	1	214H160010	Bracket, Front Chassis
003G	2	2	2	2	2	51100306A9	B.H.M. Screw B3 x 6
004G	4	4	4	4	4	51100306A9	B.H.M. Screw B3 x 6
005G	6	6	6	6	6	51100306A9	B.H.M. Screw B3 x 6
007G	1	1	1	1	1	2139271020	Holder
010G	1	1	1	1	1	214H118010	Spacer
011G	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
017G	2	2	2	2	2	2276005050	Clamp
020G	1	1	1	1	1	2137005030	Clamp

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
△G001	1	1				DK18103530	Ceramic Cap. 0.01μF 125V
△G001			1	1		DK18103840	Ceramic Cap. 0.01μF 400V
△G001					1	DK18103850	Ceramic Cap. 0.01μF 250V
S401	1	1	1	1	1	SR00050070	Rotary Switch
S402	1	1	1	1	1	SR00060020	Rotary Switch

[H01-99] Packing Materials



- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001S	1	1				214H801010	Packing Case
001S		1	1			214H801020	Packing Case
001S				1		214H801030	Packing Case
002S	1	1	1	1	1	211H809010	Cushion, Front
003S	1	1	1	1	1	211H809020	Cushion, Rear
005S	1	1	1	1	1	9090909040	Polyethylene Sheet
006S	1	1	1	1	1	2918107150	Sheet
010S	2					9526019010	Serial No. Card
010S		4				9526019020	Serial No. Card
010S		4				9526019060	Serial No. Card
010S			4			9526019030	Serial No. Card
010S				3		9526019050	Serial No. Card
011S				1		2731821010	Silicagel
012S				1		YJ04000240	Jack, AC Adaptor
012S	2					9510901020	Label

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
001T	1					214H851010	Instructions
001T		1	1	1	1	214H851310	Instructions
002T	1					214H851020	Instructions
002T		1				214H851220	Instructions
002T			1	1	1	214H851320	Instructions
003T	1					2818854020	Guarantee Card
003T		1				2818854040	Guarantee Card
003T			1			214H856010	Circuit Diagram
003T				1		2818854010	Guarantee Card
004T	1					2225813010	Envelope
004T				1		9631000090	Guarantee Card
006T		1				9650000050	S. Station Card
006T				1		9650000010	S. Station Card
△W001				1		ZC01805030	A.C. Power Cord
△W001				1		ZC02006030	A.C. Power Cord

- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION	REF. DESIG.	Q'TY					PART NO.	DESCRIPTION	
	U	C	N	A	P				U	C	N	A	P			
△C801	1	1	1	1	1	EA47505030	Elect	4.7μF	50V	R711	1	1	1	1	GD05122140	1.2KΩ
△C802	1	1	1	1	1	EA47705030	Elect	470μF	50V	R712	1	1	1	1	GD05122140	1.2KΩ
△C803	1	1	1	1	1	EA47705030	Elect	470μF	50V	R713	1	1	1	1	GD05221140	220Ω
△C804	1	1	1	1	1	EA10703530	Elect	100μF	35V	R714	1	1	1	1	GD05221140	220Ω
△C805	1	1	1	1	1	EA10703530	Elect	100μF	35V	R715	1	1	1	1	GD05123140	12KΩ
△C806	1	1	1	1	1	EA10702530	Elect	100μF	25V	R716	1	1	1	1	GD05123140	12KΩ
△C807	1	1	1	1	1	EA10702530	Elect	100μF	25V	R717	1	1	1	1	GG05682140	6.8KΩ
C808	1	1	1	1	1	EA10701630	Elect	100μF	16V	R718	1	1	1	1	GG05682140	6.8KΩ
C809	1	1	1	1	1	EA10701630	Elect	100μF	16V	R719	1	1	1	1	GG05221140	220Ω
△C810	1	1	1	1	1	EA47601630	Elect	47μF	16V	R720	1	1	1	1	GG05221140	220Ω
△C811	1	1	1	1	1	EA47601630	Elect	47μF	16V	R723	1	1	1	1	GD05473140	47KΩ
C812	1	1	1	1	1	DK18103560	Ceramic	0.01μF		R724	1	1	1	1	GD05473140	47KΩ
△C813	1	1	1	1	1	DK18103560	Ceramic	0.01μF		R725	1	1	1	1	GG05100140	10Ω
C814	1	1	1	1	1	DK18103560	Ceramic	0.01μF		R726	1	1	1	1	GG05100140	10Ω
C815	1	1	1	1	1	EA47601630	Elect	47μF	16V	R727	1	1	1	1	GD05333140	33KΩ
△C816	1	1	1	1	1	EB10906330	Elect	10000μF	63V	R728	1	1	1	1	GD05333140	33KΩ
△C817	1	1	1	1	1	EB10906330	Elect	10000μF	63V	R729	1	1	1	1	GD05332140	3.3KΩ
C818	1	1	1	1	1	DF16103300	Film	0.01μF	±10%	R730	1	1	1	1	GD05332140	3.3KΩ
C819	1	1	1	1	1	DF16103300	Film	0.01μF	±10%	R731	1	1	1	1	GG05102140	1KΩ
CE01	1	1	1	1	1	EA10505030	Elect	1μF	50V	R732	1	1	1	1	GG05102140	1KΩ
CE02	1	1	1	1	1	EA10505030	Elect	1μF	50V	R733	1	1	1	1	GD05102140	1KΩ
CE03	1	1	1	1	1	DK16181300	Ceramic	180pF	±10%	R734	1	1	1	1	GD05102140	1KΩ
CE04	1	1	1	1	1	DK16181300	Ceramic	180pF	±10%	R735	1	1	1	1	GD05471140	470Ω
CE05	1	1	1	1	1	EA10602530	Elect	10μF	25V	R736	1	1	1	1	GD05471140	470Ω
CE06	1	1	1	1	1	EA10602530	Elect	10μF	25V	R737	1	1	1	1	RA01020110	1KΩ, Trimming
CE07	1	1	1	1	1	EA47505030	Elect	4.7μF	50V	R738	1	1	1	1	RA01020110	1KΩ, Trimming
CE08	1	1	1	1	1	EA47505030	Elect	4.7μF	50V	△R739	1	1	1	1	RF05121140	120Ω, Fusible
CE09	1	1	1	1	1	EA10701030	Elect	100μF	10V	△R740	1	1	1	1	RF05121140	120Ω, Fusible
CE10	1	1	1	1	1	EA10701030	Elect	100μF	10V	△R741	1	1	1	1	RF05121140	120Ω, Fusible
CE11	1	1	1	1	1	EA10701030	Elect	100μF	10V	△R742	1	1	1	1	RF05121140	120Ω, Fusible
CE12	1	1	1	1	1	EA10701030	Elect	100μF	10V	△R743	1	1	1	1	RF05100120	10Ω, ½W Fusible
CE63	1	1	1	1	1	EA10701630	Elect	100μF	16V	△R744	1	1	1	1	RF05100120	10Ω, ½W Fusible
CE64	1	1	1	1	1	EA10701630	Elect	100μF	16V	△R745	1	1	1	1	RF05100120	10Ω, ½W Fusible
CN01	1	1	1	1	1	EA47601630	Elect	47μF	16V	△R746	1	1	1	1	RF05100120	10Ω, ½W Fusible
CN02	1	1	1	1	1	EA33701630	Elect	330μF	16V	R747	1	1	1	1	GG05271120	270Ω, ½W
CT01	1	1	1	1	1	DK16331300	Ceramic	330pF	±10%	R748	1	1	1	1	GG05271120	270Ω, ½W
CT02	1	1	1	1	1	DK16331300	Ceramic	330pF	±10%	△R749	1	1	1	1	BW10000020	0.33Ω, 5W x 2 Compo.
CT03	1	1	1	1	1	DF16683300	Film	0.068μF	±10%	△R750	1	1	1	1	BW10000020	0.33Ω, 5W x 2 Compo.
CT04	1	1	1	1	1	DF16683300	Film	0.068μF	±10%	R753	1	1	1	1	GD05151140	150Ω
CT05	1	1	1	1	1	DF16103300	Film	0.01μF	±10%	R754	1	1	1	1	GD05151140	150Ω
CT06	1	1	1	1	1	DF16103300	Film	0.01μF	±10%	R755	1	1	1	1	GD05151140	150Ω
CT07	1	1	1	1	1	EA10505030	Elect	1μF	50V	R756	1	1	1	1	GD05151140	150Ω
CT08	1	1	1	1	1	EA10505030	Elect	1μF	50V	R757	1	1	1	1	GD05332140	3.3KΩ
P700-RESISTORS (All Resistors are ±5% & ½W)																
R701	1	1	1	1	1	GD05471140		470Ω		R758	1	1	1	1	GD05332140	3.3KΩ
R702	1	1	1	1	1	GD05471140		470Ω		R759	1	1	1	1	GD05332140	3.3KΩ
R703	1	1	1	1	1	GD05822140		8.2KΩ		R760	1	1	1	1	GD05332140	3.3KΩ
R704	1	1	1	1	1	GD05822140		8.2KΩ		R761	1	1	1	1	GD05158140	18KΩ
R705	1	1	1	1	1	GG05391140		390Ω		R762	1	1	1	1	GD05158140	18KΩ
R706	1	1	1	1	1	GG05391140		390Ω		R763	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R707	1	1	1	1	1	GG05361140		360Ω		R764	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R708	1	1	1	1	1	GG05361140		360Ω		R765	1	1	1	1	GA05100020	10Ω 2W
R709	1	1	1	1	1	GD05152140		1.5KΩ		R766	1	1	1	1	GA05100020	10Ω 2W
R710	1	1	1	1	1	GD05152140		1.5KΩ		R767	1	1	1	1	GD05560140	56Ω
										R768	1	1	1	1	GD05560140	56Ω
										R769	1	1	1	1	GD05560140	56Ω
										R770	1	1	1	1	GD05560140	56Ω
										R771	1	1	1	1	GG05101140	100Ω
										R772	1	1	1	1	GG05101140	100Ω
										R773	1	1	1	1	GG05101140	100Ω
										R774	1	1	1	1	GG05101140	100Ω

- (U) for U.S.A
- (C) for Canada
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REF. DESIG.	Q'TY					PART NO.	DESCRIPTION	REF. DESIG.	Q'TY					PART NO.	DESCRIPTION		
	U	C	N	A	P				U	C	N	A	P				
R775	1	1	1	1	1	GD05224140	220KΩ	RS01	1	1	1	1	1	GA05331010	330Ω 1W		
R776	1	1	1	1	1	GD05224140	220KΩ	RS02	1	1	1	1	1	GA05331010	330Ω 1W		
R777	1	1	1	1	1	GD05224140	220KΩ	RT01	1	1	1	1	1	GD05272140	2.7KΩ		
R778	1	1	1	1	1	GD05224140	220KΩ	RT02	1	1	1	1	1	GD05272140	2.7KΩ		
R779	1	1	1	1	1	GD05683140	68KΩ	RT03	1	1	1	1	1	GD05273140	27KΩ		
R780	1	1	1	1	1	GD05683140	68KΩ	RT04	1	1	1	1	1	GD05273140	27KΩ		
R781	1	1	1	1	1	GD05563140	56KΩ	RT05	1	1	1	1	1	GD05822140	8.2KΩ		
R782	1	1	1	1	1	GD05563140	56KΩ	RT06	1	1	1	1	1	GD05822140	8.2KΩ		
R789	1	1	1	1	1	GD05103140	10KΩ	RT07	1	1	1	1	1	GD05222140	2.2KΩ		
R790	1	1	1	1	1	GD05103140	10KΩ	RT08	1	1	1	1	1	GD05222140	2.2KΩ		
R791	1	1	1	1	1	GD05681140	680Ω	RT09	1	1	1	1	1	GD05224140	220KΩ		
R792	1	1	1	1	1	GD05681140	680Ω	RT10	1	1	1	1	1	GD05224140	220KΩ		
R793	1	1	1	1	1	GD05271140	270Ω	RT11	1	1	1	1	1	GD05274140	270KΩ		
R794	1	1	1	1	1	GD05271140	270Ω	RT12	1	1	1	1	1	GD05274140	270KΩ		
R795	1	1	1	1	1	GD05271140	270Ω	P700-SEMICONDUCTORS									
R796	1	1	1	1	1	GD05271140	270Ω	Q701	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
R801	1	1	1	1	1	GD05123140	12KΩ	Q702	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
R802	1	1	1	1	1	GD05123140	12KΩ	Q703	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
R803	1	1	1	1	1	GD05472140	4.7KΩ	Q704	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
R804	1	1	1	1	1	GD05472140	4.7KΩ	Q705	1	1	1	1	1	HT110162B0	Transistor 2SA1016(G or H)		
R805	1	1	1	1	1	RF05820120	.82Ω	Q706	1	1	1	1	1	HT110162B0	Transistor 2SA1016(G or H)		
R806	1	1	1	1	1	RF05101120	100Ω	Q707	1	1	1	1	1	HT110162B0	Transistor 2SA1016(G or H)		
R807	1	1	1	1	1	GD05562140	5.6KΩ	Q708	1	1	1	1	1	HT110162B0	Transistor 2SA1016(G or H)		
R808	1	1	1	1	1	GG05102140	1KΩ	Q709	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
R809	1	1	1	1	1	GD05223140	22KΩ	Q710	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
R810	1	1	1	1	1	GD05332140	3.3KΩ	Q711	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)		
R811	1	1	1	1	1	GD05682140	6.8KΩ	Q712	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)		
R812	1	1	1	1	1	GD05182140	1.8KΩ	Q713	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)		
R813	1	1	1	1	1	GD05183140	18KΩ	Q714	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)		
R814	1	1	1	1	1	GD05472140	4.7KΩ	Q715	1	1	1	1	1	HT322292A0	Transistor 2SC2229(O or Y)		
▲R815	1	1	1	1	1	GD05102140	1KΩ	Q716	1	1	1	1	1	HT322292A0	Transistor 2SC2229(O or Y)		
▲R816	1	1	1	1	1	GG05183140	18KΩ	Q717	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
▲R817	1	1	1	1	1	GG05183140	18KΩ	Q718	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
▲R818	1	1	1	1	1	RF05220140	22Ω	Q719	1	1	1	1	1	HT323442A0	Transistor 2SC2344(D or E)		
▲R819	1	1	1	1	1	RF05220140	22Ω	Q720	1	1	1	1	1	HT323442A0	Transistor 2SC2344(D or E)		
RE01	1	1	1	1	1	GD05221140	220Ω	▲Q721	1	1	1	1	1	HT110112A0	Transistor 2SA1011(D or E)		
RE02	1	1	1	1	1	GD05221140	220Ω	▲Q722	1	1	1	1	1	HT110112A0	Transistor 2SA1011(D or E)		
RE03	1	1	1	1	1	GD05823140	82KΩ	▲Q723	1	1	1	1	1	HT328382B0	Transistor 2SC2838(O or Y)		
RE04	1	1	1	1	1	GD05823140	82KΩ	▲Q724	1	1	1	1	1	HT328382B0	Transistor 2SC2838(O or Y)		
RE05	1	1	1	1	1	GD05102140	1KΩ	▲Q725	1	1	1	1	1	HT111872B0	Transistor 2SA1187(O or Y)		
RE06	1	1	1	1	1	GD05102140	1KΩ	▲Q726	1	1	1	1	1	HT111872B0	Transistor 2SA1187(O or Y)		
RE07	1	1	1	1	1	GD05392140	3.9KΩ	Q727	1	1	1	1	1	HT313181R0	Transistor 2SC1318(R)		
RE08	1	1	1	1	1	GD05392140	3.9KΩ	Q728	1	1	1	1	1	HT313181R0	Transistor 2SC1318(R)		
RE09	1	1	1	1	1	GD05104140	100KΩ	Q729	1	1	1	1	1	HT107201R0	Transistor 2SC1318(R)		
RE10	1	1	1	1	1	GD05104140	100KΩ	Q730	1	1	1	1	1	HT107201R0	Transistor 2SA720(R)		
RE11	1	1	1	1	1	GD05391140	390Ω	Q731	1	1	1	1	1	HD20001210	Diode 1S2473C		
RE12	1	1	1	1	1	GD05391140	390Ω	Q732	1	1	1	1	1	HD20001210	Diode 1S2473C		
RE13	1	1	1	1	1	GD05223140	22KΩ	Q733	1	1	1	1	1	HD20001210	Diode 1S2473		
RE14	1	1	1	1	1	GD05223140	22KΩ	Q734	1	1	1	1	1	HD20001210	Diode 1S2473		
RE15	1	1	1	1	1	GD05221140	220Ω	Q735	1	1	1	1	1	HD20001210	Diode 1S2473		
RE16	1	1	1	1	1	GD05221140	220Ω	Q736	1	1	1	1	1	HD20001210	Diode 1S2473		
RE17	1	1	1	1	1	GD05562140	5.6Ω	Q737	1	1	1	1	1	HD20002210	Diode 1S2472		
RE18	1	1	1	1	1	GD05562140	5.6Ω	Q738	1	1	1	1	1	HD20002210	Diode 1S2472		
RE19	1	1	1	1	1	GD05562140	5.6Ω	Q739	1	1	1	1	1	HD20002210	Diode 1S2472		
RE20	1	1	1	1	1	GD05562140	5.6Ω	Q740	1	1	1	1	1	HD20002210	Diode 1S2472		
RN01	1	1	1	1	1	GG05562120	5.6KΩ	Q741	1	1	1	1	1	HD20005010	Diode W06B		
RN02	1	1	1	1	1	GG05562120	5.6KΩ	Q742	1	1	1	1	1	HD20005010	Diode W06B		
RN03	1	1	1	1	1	GD05223140	22KΩ	Q743	1	1	1	1	1	HD20005010	Diode W06B		
RN04	1	1	1	1	1	GD05153140	15KΩ	Q744	1	1	1	1	1	HD20005010	Diode W06B		
RN05	1	1	1	1	1	GD05562140	5.6KΩ	Q745	1	1	1	1	1	HD20008210	Diode 1S2471		
RN06	1	1	1	1	1	GD05154140	150KΩ	Q746	1	1	1	1	1	HD20008210	Diode 1S2471		
RN07	1	1	1	1	1	GD05393140	39KΩ	Q747	1	1	1	1	1	HC10003090	IC 4558D		
RN08	1	1	1	1	1	GG05100140	10Ω	Q752	1	1	1	1	1	HV00010120	Varistor MV-11Y		
RN09	1	1	1	1	1	GD05333140	33KΩ	Q753	1	1	1	1	1	HV00010120	Varistor MV-11Y		

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REF. DESIG.	Q'TY					PART NO.	DESCRIPTION		
	U	C	N	A	P				
PE02-RESISTORS (All Resistors are ±5% & 1/4W)									
RE31	1	1	1	1	1	GD05101140	100Ω		
RE32	1	1	1	1	1	GD05101140	100Ω		
RE33	1	1	1	1	1	GD05101140	100Ω		
RE34	1	1	1	1	1	GD05101140	100Ω		
RE35	1	1	1	1	1	GD05101140	100Ω		
RE36	1	1	1	1	1	GD05101140	100Ω		
RE37	1	1	1	1	1	GD05101140	100Ω		
RE38	1	1	1	1	1	GD05101140	100Ω		
RE39	1	1	1	1	1	GD05101140	100Ω		
RE40	1	1	1	1	1	GD05101140	100Ω		
RE41	1	1	1	1	1	GD05473140	47KΩ		
RE42	1	1	1	1	1	GD05473140	47KΩ		
RE43	1	1	1	1	1	GD05473140	47KΩ		
RE44	1	1	1	1	1	GD05473140	47KΩ		
RE45	1	1	1	1	1	GD05473140	47KΩ		
RE46	1	1	1	1	1	GD05473140	47KΩ		
RE47	1	1	1	1	1	GD05473140	47KΩ		
RE48	1	1	1	1	1	GD05473140	47KΩ		
RE49	1	1	1	1	1	GD05473140	47KΩ		
RE50	1	1	1	1	1	GD05473140	47KΩ		
RE51	1	1	1	1	1	GD05472140	4.7KΩ		
RE52	1	1	1	1	1	GD05472140	4.7KΩ		
RE53	1	1	1	1	1	GD05472140	4.7KΩ		
RE54	1	1	1	1	1	GD05472140	4.7KΩ		
RE55	1	1	1	1	1	GD05472140	4.7KΩ		
RE56	1	1	1	1	1	GD05472140	4.7KΩ		
RE57	1	1	1	1	1	GD05472140	4.7KΩ		
RE58	1	1	1	1	1	GD05472140	4.7KΩ		
RE59	1	1	1	1	1	GD05472140	4.7KΩ		
RE60	1	1	1	1	1	GD05472140	4.7KΩ		
RE61	1	1	1	1	1	GD05102140	1KΩ		
RE62	1	1	1	1	1	GD05102140	1KΩ		
RE63	1	1	1	1	1	GD05102140	1KΩ		
RE64	1	1	1	1	1	GD05102140	1KΩ		
RE65	1	1	1	1	1	GD05102140	1KΩ		
RE66	1	1	1	1	1	GD05102140	1KΩ		
RE67	1	1	1	1	1	GD05102140	1KΩ		
RE68	1	1	1	1	1	GD05102140	1KΩ		
RE69	1	1	1	1	1	GD05102140	1KΩ		
RE70	1	1	1	1	1	GD05102140	1KΩ		
PE02-SEMICONDUCTORS									
QE03	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE04	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE05	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE06	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE07	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE08	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE09	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE10	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE11	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
QE12	1	1	1	1	1	HT323622B0	Transistor 2SC2362(G or H)		
WE01	1	1	1	1	1	YU07120260	Jumper Lead		
REF. DESIG.	Q'TY					PART NO.	DESCRIPTION		
	U	C	N	A	P				
PG00-VOLUME CIRCUIT BOARD									
PG00	1	1	1	1	1	YK211H3640	P.W. Board Volume		
						ZZ211H3640	P.W. Board Assembly		
PG00-RESISTORS									
RG01	1	1	1	1	1	RM01040270	Variable, Volume		
RG02	1	1	1	1	1	RK02040080	Variable, Balance		
WG01	1	1	1	1	1	YU05260260	Jumper Lead		
PO00-POWER SWITCH CIRCUIT BOARD									
PO00	1	1	1	1	1	YK211H3630	P.W. Board, Power Switch		
						ZZ211H3630	P.W. Board Assembly		
						ZZ211H8630	P.W. Board Assembly		
						ZZ211H7630	P.W. Board Assembly		
PV01-TAPE IN/OUT CIRCUIT BOARD									
PV01	1	1	1	1	1	YK211H1220	P.W. Board, Tape In/Out		
						ZZ211H1220	P.W. Board Assembly		
JV01	1	1	1	1	1	YT02040260	Terminal, Tape 1		
JV02	1	1	1	1	1	YT02040260	Terminal, Tape 2		
PW01-HEAD PHONE CIRCUIT BOARD									
PW01	1	1	1	1	1	YK211H3620	P.W. Board, Head Phone		
						ZZ211H3620	P.W. Board Assembly		
JW01	1	1	1	1	1	YJ01001400	Jack, Head Phone		
WW01	1	1	1	1	1	YU03240260	Jumper Lead		
PW02-EQ OUT CIRCUIT BOARD									
PW02	1	1	1	1	1	YK211H3660	P.W. Board, EQ Out		
						ZZ211H3660	P.W. Board Assembly		
JW02	1	1	1	1	1	YJ01001400	Jack, EQ Out		

- (U) for U.S.A
- (C) for Canada
- (N) for Europe
- (A) for Australia
- (P) for PX

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION	
	U	C	N	A	P			
PX01	1	1	1	1	1	YK214H0300	PX01-LED POWER METER CIRCUIT BOARD P.W. Board, LED Power Meter Drive	
	1	1	1	1	1	ZZ214H0300	P.W. Board Assembly	
CX01 CX02 CX03 CX04 CX05 CX06	1	1	1	1	1	EJ33505010	PX01-CAPACITORS Elect 3.3μF 50V	
	1	1	1	1	1	EJ33505010	Elect 3.3μF 50V	
	1	1	1	1	1	EJ10505010	Elect 1μF 50V	
	1	1	1	1	1	EJ10505010	Elect 1μF 50V	
	1	1	1	1	1	DK18103320	Ceramic 0.01μF	
	1	1	1	1	1	DK18103320	Ceramic 0.01μF	
	PX01-RESISTORS (All Resistors are ±5% & 1/4W)							
	RX01	1	1	1	1	1	GD05103140	10KΩ
	RX02	1	1	1	1	1	GD05103140	10KΩ
	RX03	1	1	1	1	1	GD05104140	100KΩ
RX04 RX07 RX08 RX10 RX11 RX12 RX13 RX14 RX15 RX16 RX17 RX18 RX19 RX20 RX25 RX26 RX27 RX28	RX04	1	1	1	1	1	GD05104140	100KΩ
	RX07	1	1	1	1	1	RA02030060	20KΩ, Trimming
	RX08	1	1	1	1	1	RA02030060	20KΩ, Trimming
	RX10	1	1	1	1	1	GD05181140	180Ω
	RX11	1	1	1	1	1	GD05561140	560Ω
	RX12	1	1	1	1	1	GD05561140	560Ω
	RX13	1	1	1	1	1	GD05561140	560Ω
	RX14	1	1	1	1	1	GD05561140	560Ω
	RX15	1	1	1	1	1	GD05561140	560Ω
	RX16	1	1	1	1	1	GD05561140	560Ω
	RX17	1	1	1	1	1	GD05561140	560Ω
	RX18	1	1	1	1	1	GD05561140	560Ω
	RX19	1	1	1	1	1	GD05561140	560Ω
	RX20	1	1	1	1	1	GD05561140	560Ω
	RX25	1	1	1	1	1	GD05563140	56KΩ
	RX26	1	1	1	1	1	GD05563140	56KΩ
	RX27	1	1	1	1	1	GD05333140	33KΩ
	RX28	1	1	1	1	1	GD05333140	33KΩ

REF. DESIG.	Q'TY					PART NO.	DESCRIPTION
	U	C	N	A	P		
QX01	1	1	1	1	1	HD30076090	PX01-SEMICONDUCTORS
QX02	1	1	1	1	1	HD30076090	Zener WZ038
QX03	1	1	1	1	1	HD20001210	Zener WZ038
QX04	1	1	1	1	1	HD20001210	Diode 1S2473
QX05	1	1	1	1	1	HC10008370	Diode 1S2473
QX06	1	1	1	1	1	HC10008370	IC TL489C
QX07	1	1	1	1	1	HC10003090	IC TL489C
QX08	1	1	1	1	1	HI10006320	IC 4558D
QX09	1	1	1	1	1	HI10007320	L.E.D. GL-9NG9, Green
QX10	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX11	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX12	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX13	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX14	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX15	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX16	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX17	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX18	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX21	1	1	1	1	1	HD20001210	Diode 1S2473
QX22	1	1	1	1	1	HD20001210	Diode 1S2473
WX01	1	1	1	1	1	YU04200260	PX01-MISCELLANEOUS
WX02	1	1	1	1	1	YU02200260	Jumper Lead
							Jumper Lead

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

7. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT PER CHANNEL

DIN 4 OHMS 1kHz	·115W
RMS 4 OHMS 1kHz	105W
DIN 8 OHMS 1kHz	85W
RMS 8 OHMS 1kHz	80W
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS	0.03%
I.M. DISTORTION	0.03%
DAMPING FACTOR 8 OHMS (1kHz)	85
FREQUENCY RESPONSE	10Hz – 50kHz

MM CARTRIDGE INPUT

Frequency Response (RIAA)	±0.2dB
Signal-to-Noise Ratio	85dB
Input Impedance	47kohms
Input Capacitance	200pF
Input Sensitivity	2.8mV
Equivalent Input Noise	0.3µV
Dynamic Range	112dB

MC CARTRIDGE INPUT

Input Sensitivity	280µV
Input Impedance	100ohms

AUX. INPUT

Input Impedance	33kohms
Input Sensitivity	150mV
Frequency Response	5Hz – 75kHz
Signal-to-Noise Ratio	98dB

OUTPUT VOLTAGE

Tape Out	400mV
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OUTPUT IMPEDANCE

Tape Out	470ohms
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GENERAL

Power Requirements	220V AC, 50Hz (E and N versions are featuring external voltage selector.)
	Other versions can be converted by a qualified technician to operate on 240V.)

Power Consumption at Rated Output, both Channels Driven	290W ± 20W
Dimensions	

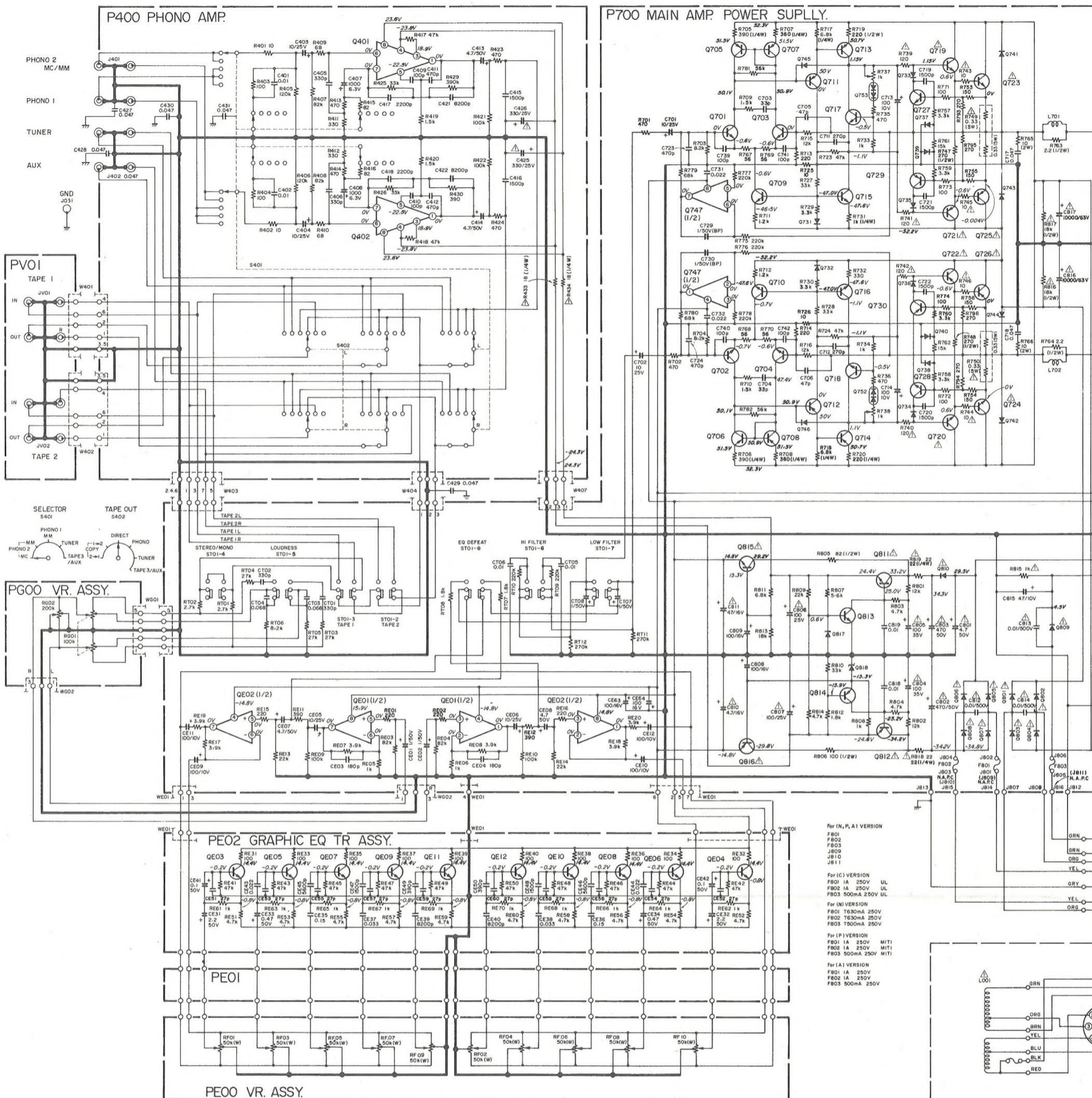
Panel Width	416mm
Panel Height	117.5mm
Depth	329mm

Weight

Unit Alone	9kg
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MEMORANDUM

8. SCHEMATIC DIAGRAM



Note on safety: The parts marked with \triangle are important parts on the safety. Please use the parts having the designated parts number without fail.

Components and wiring are subject to change for modification with

